	Application No.	Applicant(s)
Notice of Allowability	10/736,953	HAKURA, ZIYAD S.
	Examiner	Art Unit
	Aaron M. Richer	2628
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to amendment filed August 28, 2006.		
2. The allowed claim(s) is/are <u>1-4 and 6-13</u> .		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (d) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (d) DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☑ Examiner's Amend 8. ☑ Examiner's Statem 9. ☐ Other	(PTO-413), ite

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Edward Van Gieson on September 20, 2006.

In the claims:

CANCEL claims 14-24.

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DETAILED ACTION

Allowable Subject Matter

Claims 1-4 and 6-13 are allowed.

3. As to claim 1, Lengyel (U.S. Patent 6,016,150) discloses:

determining that each sample of a subset of samples is associated with an equivalent degree of shadowing (col. 25, line 63-col. 26, line 7; a preprocessor judges whether a shadow map is equivalent or near-equivalent for a subsequent frame);

generating an indicator representing said degree of shadowing associated with said subset of samples (col. 25, line 63-col. 26, line 7; the shadow map is an indicator and contains shadow values which could also be construed as indicators).

Other references, such as Duluk (U.S. Patent 6,288,730) disclose an identification of visible geometry depth range for a set (col. 7, lines 6-28). Duluk determines visible shapes based on z-values. However, neither Lengyel nor Duluk, nor any reference combinable with the two, discloses determining whether such a range overlaps a shadow volume boundary depth range. Motivation may exist to combine identification of a visible geometry depth range with Lengyel, but one would still not end up with an invention that reads on claim 1 in the instant application. While Lengyel is concerned with shadow volumes, there is no suggestion in either reference to determine an overlap between VG depth range and SVB depth range.

4. The following is an examiner's statement of reasons for allowance:

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As to claim 1, the prior art does not disclose the limitation of "determining whether said VG depth range overlaps a shadow volume boundary ("SVB") depth range" along with the other limitations of claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron M. Richer whose telephone number is (571) 272-7790. The examiner can normally be reached on weekdays from 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on (571) 272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMR 9/20/06

KEE M. TUNG

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